

=> d his

(FILE 'HCAPLUS' ENTERED AT 07:49:36 ON 07 AUG 2003)
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 07:50:06 ON 07 AUG 2003
ACT LEVY/A

L1 STR
L2 767 SEA FILE=REGISTRY SSS FUL L1

ACT LEVYCL12/A

L3 STR
L4 (767)SEA FILE=REGISTRY SSS FUL L3
L5 STR
L6 16 SEA FILE=REGISTRY SUB=L4 SSS FUL L5

L7 761 S L2 AND (CAPLUS OR CA)/LC
L8 734 S L2 AND USPATFULL/LC
L9 0 S L8 NOT L7

→ no additional hits in uspatfull

FILE 'HCAPLUS' ENTERED AT 07:50:52 ON 07 AUG 2003
L10 12 S L2
L11 6 S L6

FILE 'HCAOLD' ENTERED AT 07:51:31 ON 07 AUG 2003
L12 0 S L2

=> fil req

FILE 'REGISTRY' ENTERED AT 07:51:40 ON 07 AUG 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

```
STRUCTURE FILE UPDATES:      6 AUG 2003  HIGHEST RN 562043-52-1
DICTIONARY FILE UPDATES:    6 AUG 2003  HIGHEST RN 562043-52-1
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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

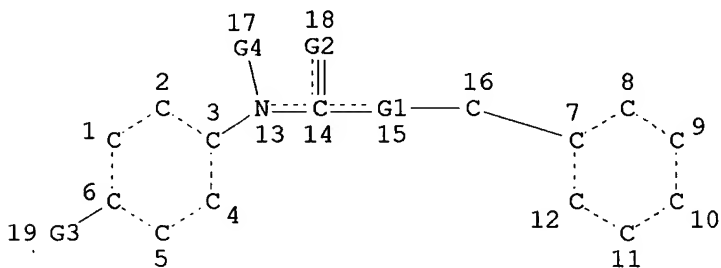
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d que stat 12

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100	100



O—Ak
@20 21

S—Ak
@22 23

$$\begin{array}{cccc} \text{N} & \text{---} & \text{N} & \text{---} & \text{C} & \text{---} & \text{Cb} \\ @24 & 25 & @26 & 27 \end{array}$$
$$\begin{array}{cccc} \text{N} & \text{---} & \text{N} & \text{---} & \text{CH} & \text{---} & \text{Cb} \\ @28 & & 29 & & @30 & & 31 \end{array}$$
$$\begin{array}{cccc} \text{C} & \text{---} & \text{N} & \text{---} & \text{N} & \text{---} & \text{Cb} \\ @32 & 33 & @34 & 35 \end{array}$$

C—N—N—Cb
@36 37 @38 39

Ak @40

claim 1

VAR G1=24-14 26-16/28-14 30-16/32-14 34-16/36-14 38-16

VAR G2=0/S

VAR G3=20/22/AK/CN/X

VAR G4=H/40

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 40

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 27

GGCAT IS MCY UNS AT 31

GGCAT IS MCY UNS AT 35

GGCAT IS MCY UNS AT 39

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 27
 ECOUNT IS E6 C AT 31
 ECOUNT IS E6 C AT 35
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 ECOUNT IS M1-X6 C AT 40

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 40

STEREO ATTRIBUTES: NONE

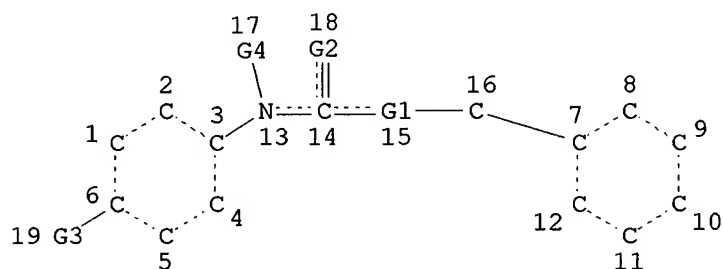
L2 767 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 5714 ITERATIONS
 SEARCH TIME: 00.00.01

767 ANSWERS

=> d que stat 16
 L3 STR

Claim 12



O—Ak
 @20 21

S—Ak
 @22 23

N—N—C—Cb
 @24 25 @26 27

N—N—CH—Cb
 @28 29 @30 31

C—N—N—Cb
 @32 33 @34 35

C—N—N—Cb
 @36 37 @38 39

Ak @40

VAR G1=24-14 26-16/28-14 30-16/32-14 34-16/36-14 38-16

VAR G2=O/S

VAR G3=20/22/AK/CN/X

VAR G4=H/40

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 40

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 27

GGCAT IS MCY UNS AT 31

GGCAT IS MCY UNS AT 35

GGCAT IS MCY UNS AT 39

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 27

ECOUNT IS E6 C AT 31

ECOUNT IS E6 C AT 35

ECOUNT IS E6 C AT 39

ECOUNT IS M1-X6 C AT 40

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 40

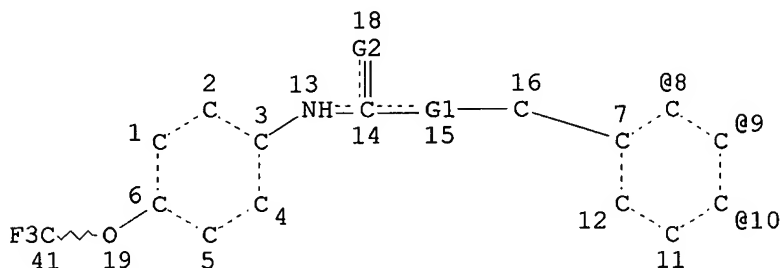
STEREO ATTRIBUTES: NONE

L4 (767)SEA FILE=REGISTRY SSS FUL L3

L5 STR

N≡N≡C—Cb~CF3 N—N—CH—Cb~CF3 C≡N≡N—Cb~CF3
@24 25 @26 27 43 @28 29 @30 31 44 @32 33 @34 35 45

C—N—N—Cb~CF3 CN @42
@36 37 @38 39 46



VAR G1=24-14 26-16/28-14 30-16/32-14 34-16/36-14 38-16

VAR G2=O/S

VPA 42-8/9/10 U

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 27

GGCAT IS MCY UNS AT 31

GGCAT IS MCY UNS AT 35

GGCAT IS MCY UNS AT 39

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 27

ECOUNT IS E6 C AT 31

ECOUNT IS E6 C AT 35

ECOUNT IS E6 C AT 39

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 40

STEREO ATTRIBUTES: NONE

L6 16 SEA FILE=REGISTRY SUB=L4 SSS FUL L5

100.0% PROCESSED 23 ITERATIONS

16 ANSWERS

SEARCH TIME: 00.00.01

=> d his 17-19

(FILE 'REGISTRY' ENTERED AT 07:50:06 ON 07 AUG 2003)

L7 761 S L2 AND (CAPLUS OR CA)/LC

L8 734 S L2 AND USPATFULL/LC

L9

O S L8 NOT L7

no additional hits in uspat full

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 07:52:05 ON 07 AUG 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 7 Aug 2003 VOL 139 ISS 6

FILE LAST UPDATED: 6 Aug 2003 (20030806/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his l10-

(FILE 'HCAPLUS' ENTERED AT 07:50:52 ON 07 AUG 2003)

L10 12 S L2

L11 6 S L6

=> d .ca l10 1-12;d .ca hitstr l11 1-6

L10 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:314711 HCAPLUS

DOCUMENT NUMBER: 136:320813

TITLE: Ectoparasitic insect pest controllers for animals and their usage

INVENTOR(S): Yamaguti, Rikio; Nishimatsu, Tetsuyoshi; Takagi, Kazuhiro

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032226	A1	20020425	WO 2001-JP9076	20011016
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO,			

RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2002128614 A2 20020509 JP 2000-317887 20001018

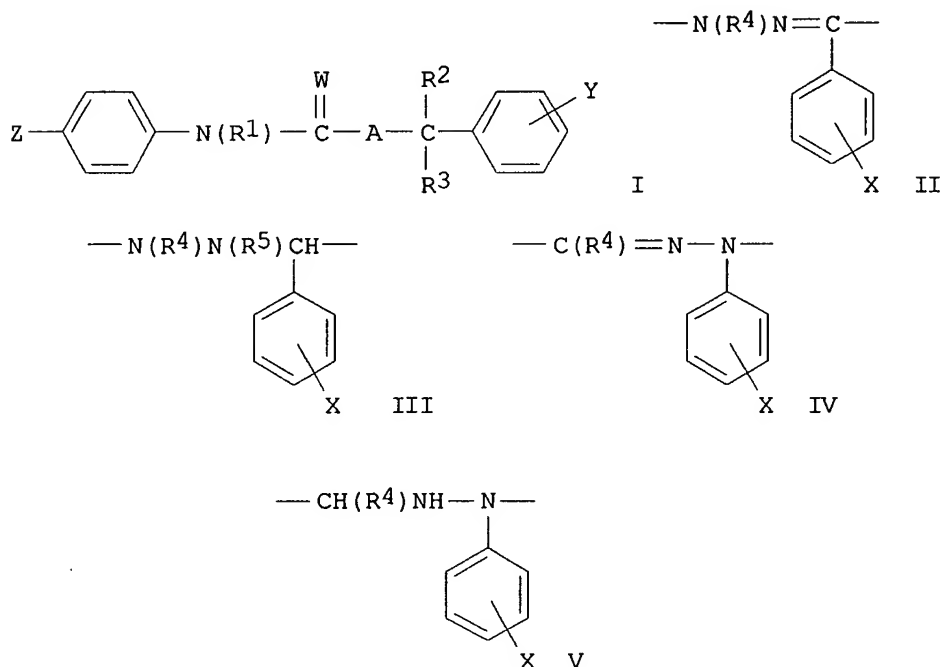
AU 2001094269 A5 20020429 AU 2001-94269 20011016

PRIORITY APPLN. INFO.: JP 2000-317887 A 20001018

WO 2001-JP9076 W 20011016

OTHER SOURCE(S): MARPAT 136:320813

GI



AB Ectoparasitic insect pest controllers for animals, contain hydrazine derivs. of the general formula (I) as the active ingredient, and methods for application of the same: (I) [wherein A is (II) (III) (IV) (V) (wherein R4 and R5 are each H, C1-6 alkyl, or the like; and X is H, or one to five substituents selected from the group consisting of halogeno and optionally halogenated C1-6 alkyl groups); R1 is H or C1-6 alkyl; R2 and R3 are each H, OH, C1-6 alkyl, phenyl-carbonyl, or the like; Y is H, or one to five substituents selected from halogeno, nitro, and cyano; Z is halogeno, cyano, C1-6 alkyl, or the like; and W is O or S]. The insect pesticides exert remarkable controlling effects on parasitic insects harmful to domestic or pet animals, e.g., fleas, lice, and ticks.

IC ICM A01N047-34

ICS A01N037-18

CC 5-4 (Agrochemical Bioregulators)

IT 302-01-2D, Hydrazine, derivs. 139966-07-7 139966-09-9

139966-19-1 139966-21-5 139966-37-3

139966-38-4 139966-50-0 139966-55-5

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RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(ectoparasitic insect pest controllers for animals)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

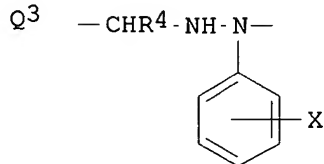
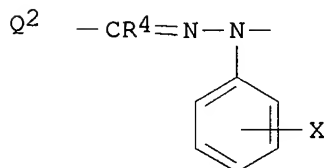
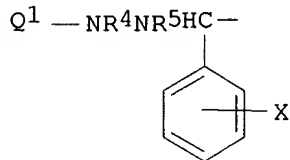
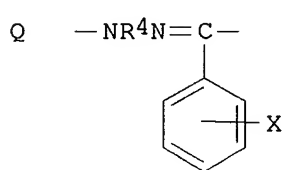
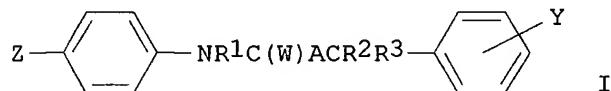
L10 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:31263 HCAPLUS

DOCUMENT NUMBER: 134:82196

TITLE: Hydrazine derivative insecticide for ant control
 INVENTOR(S): Takagi, Kazuhiro; Wada, Yasuhiro; Yamaguchi, Rikio
 PATENT ASSIGNEE(S): American Cyanamid Company, USA
 SOURCE: PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001781	A1	20010111	WO 2000-US17895	20000628
W: AT, AU, BR, CA, CH, CR, DE, DK, ES, FI, GB, HU, IL, IN, KE, MX, NO, NZ, PL, PT, SE, TR, US, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2001072516	A2	20010321	JP 2000-180378	20000615
EP 1191847	A1	20020403	EP 2000-944989	20000628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000012166	A	20020611	BR 2000-12166	20000628
CN 1292215	A	20010425	CN 2000-119966	20000704
BG 105114	A	20030131	BG 2001-105114	20010103
PRIORITY APPLN. INFO.:			JP 1999-190671	A 19990705
			WO 2000-US17895	W 20000628
OTHER SOURCE(S):		MARPAT 134:82196		
GI				



AB The invention provides ant control agents for protecting wooden materials such as trees, board fences, sleepers, etc. and structures such as

shrines, temples, houses, outhouses, factories, etc. from termites, and for controlling ants doing harm to crops or humans, which contains as active ingredient a hydrazine deriv. I (A = Q, Q1, Q2 or Q3; R1, R4, R5 = H, C1-6 alkyl, etc.; X = H, halo or haloalkyl; R2, R3 = R1, OH, phenylcarbonyl, etc.; Y = H, halo, nitro or cyano; Z = halo, cyano, C1-6 alkyl, etc.; W = O or S).

IC ICM A01N047-34

ICS A01N037-44

CC 5-4 (Agrochemical Bioregulators)

IT 139966-07-7 139966-09-9 139966-19-1
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 318249-88-6 318249-89-7

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(insecticide for ant control)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:666544 HCAPLUS

DOCUMENT NUMBER: 133:233923

TITLE: Synergistic insecticidal compositions

INVENTOR(S): Treacy, Michael Frank; Borysewicz, Raymond Frank;
 Rensner, Paul Erich

PATENT ASSIGNEE(S): American Cyanamid Company, USA

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000054592	A1	20000921	WO 2000-US5951	20000307
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2000035164	A5	20001004	AU 2000-35164	20000307
NZ 514001	A	20010928	NZ 2000-514001	20000307
EP 1161148	A1	20011212	EP 2000-913789	20000307
EP 1161148	B1	20030702		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
BR 2000008924	A	20020213	BR 2000-8924	20000307
JP 2002539139	T2	20021119	JP 2000-604686	20000307
US 6342518	B1	20020129	US 2000-521988	20000309
US 2002111376	A1	20020815	US 2002-59668	20020129
PRIORITY APPLN. INFO.:			US 1999-124228P	P 19990312
			US 1999-158202P	P 19991007
			WO 2000-US5951	W 20000307
			US 2000-521988	A3 20000309

OTHER SOURCE(S): MARPAT 133:233923

AB The invention provides a synergistic insecticidal compn. comprising a neuronal sodium channel antagonist and an arylpyrrole insecticide.

IC ICM A01N047-34

ICS A01N047-38; A01N047-40; A01N043-56; A01N037-50; A01N043-36;
 A01N047-34; A01N043-36; A01N047-40; A01N047-38; A01N047-38;
 A01N043-36; A01N047-40; A01N047-40; A01N043-36; A01N047-38;
 A01N043-56; A01N043-36; A01N047-40; A01N047-38

CC 5-4 (Agrochemical Bioregulators)

IT 293738-75-7

RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL
(Biological study); USES (Uses)
(synergistic insecticidal compn.)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:666543 HCAPLUS

DOCUMENT NUMBER: 133:248390

TITLE: Synergistic insecticidal compositions containing a
neuronal sodium channel antagonist and another
insecticide

INVENTOR(S): Treacy, Michael Frank; Borysewicz, Raymond Frank;
Schwinghammer, Kurt Allen; Rensner, Paul Erich;
Oloumi-Sadeghi, Hassan

PATENT ASSIGNEE(S): American Cyanamid Company, USA

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

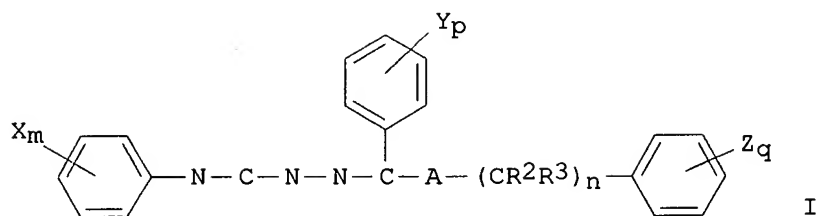
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000054591	A2	20000921	WO 2000-US5879	20000307
WO 2000054591	A3	20010118		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000036175	A5	20001004	AU 2000-36175	20000307
NZ 514000	A	20010928	NZ 2000-514000	20000307
BR 2000008930	A	20011218	BR 2000-8930	20000307
EP 1198170	A2	20020424	EP 2000-914839	20000307
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003517455	T2	20030527	JP 2000-604685	20000307
US 6479543	B1	20021112	US 2000-521987	20000309
US 2002177597	A1	20021128	US 2002-145784	20020516
PRIORITY APPLN. INFO.:				
			US 1999-124306P	P 19990312
			US 1999-158201P	P 19991007
			WO 2000-US5879	W 20000307
			US 2000-521987	A3 20000309

OTHER SOURCE(S): MARPAT 133:248390

GI



AB A synergistic insecticidal compn. comprises a neuronal sodium channel antagonist such as I (X, Y, Z = H, halo, OH, CN, NO₂, alkyl, etc.; W = O or S; m, p, q = 1, 2, 3, 4, or 5; n = 0, 1, or 2; R, R₁, R₂, R₃ = alkyl) in combination with one or more pyrethroids, pyrethroid-type compds., recombinant nucleopolyhedroviruses expressing an insect toxin, organophosphates, carbamates, formamidines, macrocyclic lactones, amidinohydrazones, GABA antagonists and acetylcholine receptor ligands.

IC ICM A01N047-00

CC 5-4 (Agrochemical Bioregulators)

IT **295312-19-5**
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (neuronal sodium channel antagonist in synergistic insecticidal compn.)

L10 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1995:735476 HCAPLUS

DOCUMENT NUMBER: 123:169370

TITLE: Preparation of hydrazine-derivative insecticides

INVENTOR(S): Takagi, Kazuhiro; Ohshima, Tetsuji; Hasegawa, Nobuyoshi; Katoh, Chiaki; Kanaoka, Atsushi; Kanno, Hideo

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 132 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

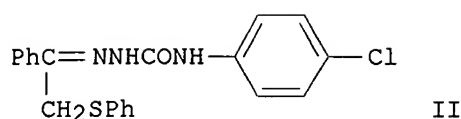
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 657421	A1	19950614	EP 1994-118767	19941129
EP 657421	B1	19990421		
R: CH, DE, ES, FR, GB, IT, LI				
ZA 9409293	A	19950817	ZA 1994-9293	19941123
CA 2136597	AA	19950609	CA 1994-2136597	19941124
AU 9479041	A1	19950629	AU 1994-79041	19941125
AU 669458	B2	19960606		
ES 2132310	T3	19990816	ES 1994-118767	19941129
CN 1107142	A	19950823	CN 1994-119875	19941207
CN 1045590	B	19991013		
US 5608109	A	19970304	US 1994-350462	19941207
JP 07215928	A2	19950815	JP 1994-331286	19941208
			JP 1993-340886	A 19931208

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 123:169370

GI



AB The title compds. A1AC(:W)N(A2)R1 [I; A = divalent C:NN or CHNHN radical; A1, A2 = (un)substituted Ph, (un)substituted heteroaryl; R1 = alkyl, etc.], useful as pesticides and insecticides, are prepd. and I-cong. formulations presented. Thus, hydrazone deriv. II, m.p. 200.degree., was prepd. and demonstrated 100% mortality against Spodoptera litura at 500 ppm.

IC ICM C07C281-14

ICS C07C281-06; C07C251-76; C07C243-22; C07D295-215; C07C323-48;

A01N047-34

CC 25-21 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT	166310-38-9P	166310-39-0P	166310-40-3P	166310-41-4P	166310-42-5P
	166310-43-6P	166310-44-7P	166310-45-8P	166310-46-9P	166310-47-0P
	166310-48-1P	166310-49-2P	166310-50-5P	166310-51-6P	166310-52-7P
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	166310-58-3P	166310-59-4P	166310-60-7P	166310-61-8P	166310-62-9P
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	166310-68-5P	166310-69-6P	166310-70-9P	166310-71-0P	166310-72-1P
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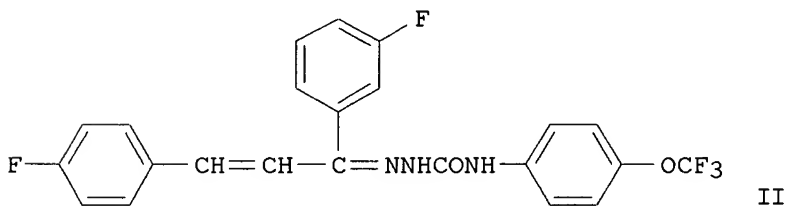
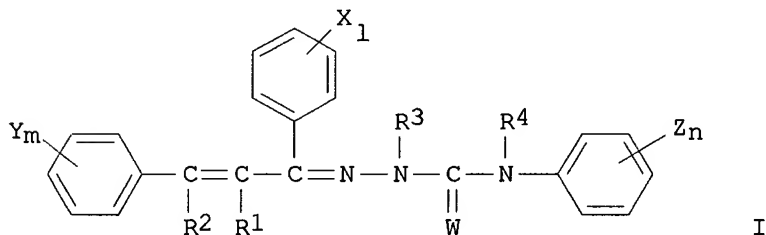
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of hydrazine-deriv. insecticides)

L10 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1995:580737 HCAPLUS
 DOCUMENT NUMBER: 122:314285
 TITLE: Preparation of cinnamophenone 4-phenylsemicarbazone derivatives as insecticides and acaricides
 INVENTOR(S): Ishii, Shigeru; Ootsu, Osamu; Nakayama, Kazuya; Numata, Akira; Myake, Toshiro; Fujita, Akihiko; Mimori, Norihiko
 PATENT ASSIGNEE(S): Nissan Chemical Ind Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07053501	A2	19950228	JP 1993-203165	19930817
PRIORITY APPLN. INFO.:			JP 1993-203165	19930817
OTHER SOURCE(S):	MARPAT 122:314285			

GI



AB 2-(1,3-Diphenyl-2-propen-1-ylidene)-N-phenylhydrazinecarboxamide deriv.
 [I; W = O, S; X, Y, Z = halo, OH, cyano, NO2, thiocyanato, Me3Si, R9, OR9,
 Stainless Steel(O)P9, OS(O)2R9, O2CR9, COR9, CO2R9, CONR9R10, SO2NR9R10,
 NHCOR9, NR9R10; wherein l, m, n = 0-5; or adjacent 2 X, Y, or Z forms

CH:CHCH:CH, OCH₂O, OCH₂CH₂O, OCF₂O, OCF₂CF₂O, or OCF₂CF₂; wherein R₉ = C1-6 (halo)alkyl, C2-6 (halo)alkyl, (halo)alkenyl, or (halo)alkynyl, C3-6 (halo)cycloalkyl, etc.; R₁₀ = H, C1-6 alkyl; R₁, R₂ = H, (un)substituted C1-6 alkyl or Ph; R₃, R₄ = C1-6 (halo)alkyl, C2-6 alkenyl, alkynyl, alkoxyalkyl, (halo)alkylcarbonyl, or alkoxy carbonyl, C1-6 (halo)alkylthio, etc.], which hardly show harmful effects on mammals, fish, and beneficial insects, are prep'd. Thus, 6.10 g 1-(3-fluorophenyl)-3-(4-fluorophenyl)-2-propen-1-one (prepn. given) and 5.88 g N-(4-trifluoromethoxyphenyl)hydrazinecarboxamide (prepn. given) were dissolved in EtOH and 0.1 mL concd. HCl was added under stirring followed by continuing the stirring for 16 h at room temp. to give a title comp'd. (II). II at 1,000 ppm killed 100% *Nephotettix cincticeps* larvae on rice seedlings, *Spodoptera litura* on cabbage leaves, and *Henosepilachna vigintioctopunctata* on tomato leaves.

IC ICM C07C281-14

ICS A01N047-34; C07C309-64; C07C309-71; C07C309-72; C07C311-38;

C07C317-32; C07C323-31; C07C337-08; C07F007-10

CC 25-21 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT 163448-53-1P 163448-54-2P 163448-55-3P 163448-56-4P 163448-57-5P
163448-58-6P 163448-59-7P 163448-60-0P 163448-61-1P 163448-62-2P
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163448-97-3P 163448-98-4P 163448-99-5P 163449-00-1P 163449-01-2P
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of cinnamophenone phenylsemicarbazone derivs. as insecticides and acaricides)

L10 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1994:533695 HCAPLUS

DOCUMENT NUMBER: 121:133695

TITLE: preparation of hydrazone derivatives as pesticides

INVENTOR(S): Kishimoto, Takashi; Matsuda, Michihiko; Hatano, Renpei; Yano, Makio; Mitsui, Jun

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: PCT Int. Appl., 29 pp.

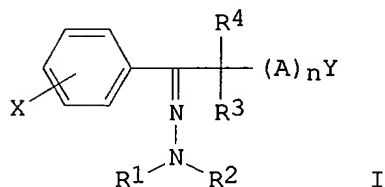
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9411340	A1	19940526	WO 1993-JP1648	19931111
W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
JP 06157444	A2	19940603	JP 1992-328828	19921113
AU 9454337	A1	19940608	AU 1994-54337	19931111
PRIORITY APPLN. INFO.:			JP 1992-328828	19921113
			WO 1993-JP1648	19931111
OTHER SOURCE(S):		MARPAT 121:133695		
GI				



AB Title compds. I [R1 = H, (un)substituted alkyl; R2 = H, (un)substituted alkyl, (un)substituted alkylcarbonyl, (un)substituted alkylcarbamoyle, (un)substituted alkoxy carbonyl, (un)substituted phenylcarbonyl, (un)substituted phenylcarbamoyle; R3 = H, (un)substituted alkyl; R4 = (un)substituted alkyl, (un)substituted alkenyl, (un)substituted alkynyl; X = halo, (un)substituted alkyl, (un)substituted alkoxy, (un)substituted cycloalkyloxy, (un)substituted alkylsulfonyloxy, (un)substituted alkylthio, (un)substituted alkylsulfonyl; A = S, O, (un)substituted alkylene, (un)substituted alkylidene, carbonyl, (alkyl)imino; n = 0, 1; Y = (un)substituted Ph, (un)substituted pyridinyl; with provisos] and their salts are prepd. E.g., I [X = p-Cl, R1 = R2 = H, n = 0, Y = Ph, R3 = R4 = Me] was reacted with (MeO)2CMe-NMe2 at 120.degree. for 2 h to give the title compd. I [R1R2 = CMe-NMe2, R3 = R4 = Me, Y = Ph, n = 0, X = p-Cl], which at 125 ppm effected 100% kill of spider mites in kidney beans.

IC ICM C07C251-86

ICS C07C323-48; C07C317-32; C07C309-65; C07C251-88; C07C281-04;
C07C281-10; C07D213-42; C07D213-61; C07D295-22; C07D249-14;
A01N033-26; A01N047-24

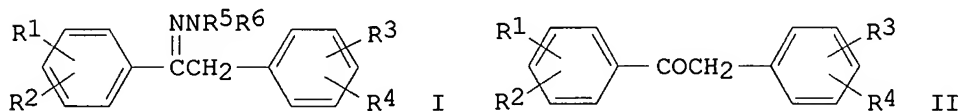
CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT 157250-60-7P 157250-61-8P 157250-62-9P 157250-63-0P 157250-64-1P
157250-65-2P **157250-66-3P** 157250-67-4P 157250-68-5P
157250-69-6P 157250-70-9P 157250-71-0P 157250-72-1P 157250-73-2P
157250-74-3P 157250-75-4P 157250-76-5P 157250-77-6P 157250-78-7P
157250-79-8P 157250-80-1P 157250-81-2P 157250-82-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as pesticide)

L10 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1993:191352 HCAPLUS
 DOCUMENT NUMBER: 118:191352
 TITLE: Hydrazone compounds, processes for their production, intermediates useful for their production, and pesticidal compositions containing them
 INVENTOR(S): Toki, Tadaaki; Koyanagi, Toru; Yoshida, Kiyomitsu; Sasaki, Hiroshi; Morita, Masayuki; Yoneda, Tetsuo
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
 SOURCE: Eur. Pat. Appl., 53 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 500111	A2	19920826	EP 1992-102869	19920220
EP 500111	A3	19921216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
AU 9210888	A1	19920827	AU 1992-10888	19920212
AU 640305	B2	19640305		
US 5288727	A	19940222	US 1992-834835	19920213
CA 2061214	AA	19920823	CA 1992-2061214	19920214
RO 108451	B1	19940531	RO 1992-158	19920214
JP 05279312	A2	19931026	JP 1992-79402	19920215
JP 3330155	B2	20020930		
ZA 9201240	A	19921125	ZA 1992-1240	19920220
BR 9200586	A	19921027	BR 1992-586	19920221
HU 60595	A2	19921028	HU 1992-574	19920221
CN 1064481	A	19920916	CN 1992-101071	19920222
PRIORITY APPLN. INFO.:			JP 1991-114191	A 19910222
			JP 1992-64388	A1 19920204
OTHER SOURCE(S):			MARPAT 118:191352	
GI				



AB Hydrazones I [R1, R2, R4 independently = H, halo, NO2, CN, OH, trialkylsilyl, (un)substituted alkyl, cycloalkyl, alkoxy, alkylthio, carboxyl, aryl, aryloxy; R3 = e.g., H, halo, NO2, CN, OH, (un)substituted alkyl, cycloalkyl, alkoxy, alkylthio, carboxyl; R5, R6 = e.g., independently H, (un)substituted alkyl, carbamoyl, alkenyl, alkynyl, heteroaryl, or R5R6 = :CR7R8 [R7, R8 = e.g, independently H, (un)substituted alkyl, cycloalkyl, alkoxy, amino]] are produced by (i) reaction of ketones II with hydrazines H2NNR5R6; (ii) reaction of I (R5 = R6 = H) with (J1O)2CR7R8 (J1 = alkyl) or R9COR10 [R9, R10 = independently H, (un)substituted alkyl, cycloalkyl, alkenyl, aryl]; and (iii) reaction of I (R8 = Cl) or with HNJ2J3 [J2, J3 = independently H, alkyl, haloalkyl,

alkoxy, haloalkoxy, (un)substituted Ph, PhO, CN, alkylamino, alkoxy carbonyl]. The insecticidal activities of some I were evaluated. Thus, reaction of 1.33 g II (R1 = R3 = 4-Cl, R2 = R4 = H) in 25 mL EtOH with 1.25 g hydrazine monohydrate afforded 1.44 g hydrazone; to 1.0 g hydrazone was added 0.51 g N,N-dimethylacetamide di-Me acetal, and reaction at 120.degree. for 2 h afforded 0.56 g I (R5R6 = :CR7R8; R7 = Me; R8 = NMe2).

IC ICM C07C251-88

ICS A01N035-10; C07C257-22; A01N037-52; C07C309-66; C07C257-06;
C07C281-04; C07C049-76; C07C049-80; C07C049-807

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5

IT 146652-17-7P 146652-18-8P 146652-20-2P 146652-21-3P 146652-22-4P
146652-23-5P 146652-24-6P 146652-25-7P 146652-26-8P 146652-27-9P
146652-28-0P 146652-29-1P 146652-31-5P 146652-33-7P 146652-34-8P
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146653-07-8P 146653-08-9P 146653-09-0P 146653-11-4P
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146653-20-5P 146653-21-6P 146653-23-8P 146653-25-0P 146653-26-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and pesticidal activity of)

L10 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1992:489972 HCAPLUS

DOCUMENT NUMBER: 117:89972

TITLE: Preparation of hydrazone- and hydrazinoacetanilides as insecticides

INVENTOR(S): Hino, Tomokazu; Andoh, Nobuharu; Hamaguchi, Hiroshi;
Kanaoka, Atsushi

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

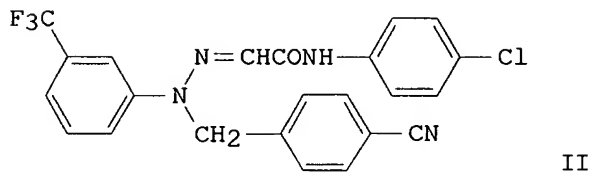
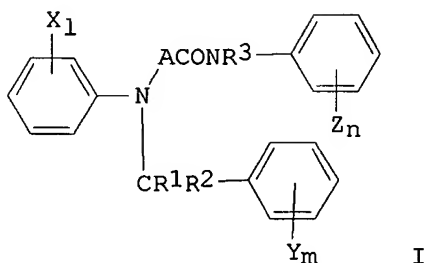
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 486937	A1	19920527	EP 1991-119381	19911113
EP 486937	B1	19950322		
R: CH, DE, ES, FR, GB, IT, LI				
ZA 9108962	A	19930512	ZA 1991-8962	19911112
US 5304573	A	19940419	US 1991-791227	19911113
ES 2073649	T3	19950816	ES 1991-119381	19911113
AU 9187864	A1	19920611	AU 1991-87864	19911114
AU 635870	B2	19930401		
CN 1061774	A	19920610	CN 1991-110747	19911116
CN 1030910	B	19960207		

JP 05262712	A2	19931012	JP 1991-329518	19911118
JP 2879174	B2	19990405		
JP 05032603	A2	19930209	JP 1991-342428	19911130
JP 2879175	B2	19990405		
US 5358965	A	19941025	US 1993-68204	19930528
CN 1109466	A	19951004	CN 1995-101129	19950103
CN 1034931	B	19970521		

PRIORITY APPLN. INFO.:

JP 1990-312414	19901117
JP 1990-334471	19901130
US 1991-791227	19911113

OTHER SOURCE(S): MARPAT 117:89972
GI



AB Title compds. I [R1-R3 = H, C1-5 alkyl; A = N:CR4, NHCHR4; R4 = H, C1-5 alkyl; each X = halo, NO2, C1-5 (halo)alkyl, C1-5 alkoxy, C1-5 alkylthio, C1-5 alkylsulfinyl, -alkylsulfonyl; each Y = halo, cyano, NO2, C1-5 (halo)alkyl, C1-5 (halo)alkoxy, C1-5 alkylthio, C1-5 alkylsulfinyl, -alkylsulfonyl, C2-5 alkynyl, C1-5 alkoxy carbonyl, etc.; each Z = halo, NO2, cyano, C1-5 (halo)alkyl, C1-5 (halo)alkoxy, C1-5 (halo)alkylthio, C1-5 (halo)alkylsulfinyl, C1-5 (halo)alkylsulfonyl, OPh, etc.; l, m, n = 0-5] were prep'd. as insecticides useful for the control of lepidoptera and coleoptera, for example. Thus, 3-trifluoromethylphenylhydrazine was benzylated by 4-CNC5H4CH2Br then condensed with HCOCO2H to give 3-CF3C6H4N(N:CHCO2H)CH2C6H4-CN. This was converted to the acid chloride, then amidated by 4-chloroaniline to give title compd. II. II at 200 ppm gave complete control of Sitophilus zeamais on brown rice.

IC ICM C07C243-22

ICS A01N041-10; C07C251-80; C07C317-40; C07C323-41; A01N037-46

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT 142593-11-1P 142593-12-2P 142593-13-3P

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142593-17-7P 142593-18-8P 142593-19-9P

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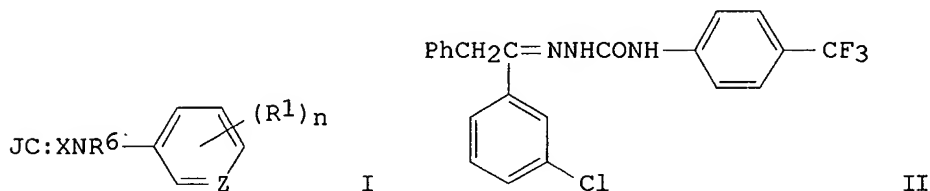
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except
 adverse); BSU (Biological study, unclassified); SPN (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as insecticide)

L10 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1992:469585 HCAPLUS
 DOCUMENT NUMBER: 117:69585
 TITLE: Preparation of substituted phenylsemicarbazone
 arthropodocides
 INVENTOR(S): Harrison, Charles Richard; Lahm, George Philip;
 Stevenson, Thomas Martin
 PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
 SOURCE: PCT Int. Appl., 75 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9206076	A1	19920416	WO 1991-US7091	19911002
W: AU, CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
CA 2093351	AA	19920406	CA 1991-2093351	19911002
AU 9190289	A1	19920428	AU 1991-90289	19911002
EP 553284	A1	19930804	EP 1991-920562	19911002
R: DE, FR, GB, IT				
JP 06502414	T2	19940317	JP 1991-518533	19911002
PRIORITY APPLN. INFO.:			US 1990-593172	19901005
			US 1990-594928	19901010
			US 1990-631585	19901221
			WO 1991-US7091	19911002
OTHER SOURCE(S):			MARPAT 117:69585	
GI				



- AB Title compds. I (J = substituted Ph, substituted heterocycllyl; X = O, S; R1 = NC, NCS, R10, R10O, R10CO, wherein R10 = C1-4 (halo)alkyl, C2-4 alkenyl, etc.; R6 = H, C1-6 alkyl, C2-6 alkoxyalkyl, HCO, etc.; Z = N, HC; n = 1, 2) are prepd. To 3-BrC6H4Cl in THF was added BuLi in hexane followed by PhCH2CHO in THF to give 1-(3-chlorophenyl)benzeneethanol which in CH2Cl, was added to pyridinium chlorochromate to give 2-phenyl-1-(3-chlorophenyl)ethanone. To this was added H2NNH2.H2O and refluxed overnight under N to give an oil, to which in THF was added 4-(F3C)C6H4NCO to give the title compd. II. In a test for insecticidal activity against fall armyworm, II at 250 ppm showed >80% mortality. I can be mixed with other insecticides, fungicides, etc.
- IC ICM C07C281-14
 ICS C07C281-06; C07C251-76; C07C243-22; C07D209-08; A01N047-34;
 C07D209-42; C07D215-58
- CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT **139967-04-7P 139967-05-8P 139967-09-2P**
139968-46-0P 139968-47-1P 139989-16-5P
142284-34-2P 142284-35-3P 142284-36-4P 142284-37-5P
 142284-38-6P 142284-39-7P 142284-40-0P 142284-41-1P 142284-42-2P
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 RL: AGR (Agricultural use); BAC (Biological activity or effector, except
 adverse); BSU (Biological study, unclassified); SPN (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as acaricide and insecticide)

L10 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1992:173783 HCAPLUS

DOCUMENT NUMBER: 116:173783

TITLE: Preparation of phenylhydrazinecarboxamide derivatives
as insecticidesINVENTOR(S): Takagi, Kazuhiro; Ohtani, Takashi; Nishida, Tateki;
Hamaguchi, Hiroshi; Nishimatsu, Tetsuyoshi; Kanaoka,
Atsushi

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 109 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

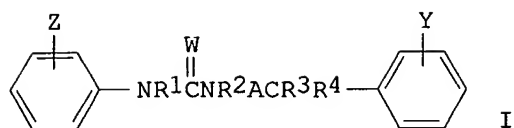
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 462456	A1	19911227	EP 1991-109275	19910606
EP 462456	B1	19960508		
R: CH, DE, ES, FR, GB, IT, LI				
ZA 9104232	A	19930224	ZA 1991-4232	19910604
ES 2089056	T3	19961001	ES 1991-109275	19910606
AU 9178332	A1	19911219	AU 1991-78332	19910613
AU 631995	B2	19921210		
CN 1057646	A	19920108	CN 1991-103974	19910615
CN 1028524	B	19950524		
JP 05004958	A2	19930114	JP 1991-171654	19910617
JP 05017428	A2	19930126	JP 1991-178815	19910624
<u>US 5543573</u>	A	19960806	US 1994-227701	19940414
CN 1103065	A	19950531	CN 1994-115320	19940916
CN 1051300	B	20000412		

PRIORITY APPLN. INFO.: JP 1990-158414 A 19900616
 JP 1990-164964 A 19900623
 US 1991-711138 B1 19910606
 US 1993-13197 B1 19930129

OTHER SOURCE(S): MARPAT 116:173783
 GI



AB Title compds. I [R1, R2, R4 = H, alkyl; R3 = H, HO, alkyl, alkoxy, alkylcarbonyloxy, (substituted) PhCO2; R3R4 = O; A = (substituted) N:CPh, (substituted) NR5CHPh wherein R5 = H, alkylcarbonyl, haloalkylcarbonyl, cycloalkylcarbonyl, alkoxy carbonyl, etc.; Y = H, HO, halo, cyano, nitro, alkyl, haloalkyl, etc.; Z = H, halo, cyano, nitro, alkyl, haloalkyl, (substituted) cycloalkyl, etc.; W = O, S] are prepd. 4-(O2N)C6H4CH2CPh:NNH2 (prepn. given) in THF was added to 4-(F3CO)C6H4NCS and Et3N and the mixt. was refluxed for 5 h to give I (R1 = R2 = R3 = R4 = H, A = N:CPh, Y = 4-NO2, Z = 4-F3CO, W = S) (II). II at 500 ppm showed 100% mortality of 2nd instar larvae of common cutworm inoculated on cabbage. Over 600 I were prepd. and many were tested; addnl. utility against some nematodes was mentioned but not demonstrated or claimed.

IC ICM C07C281-06

ICS C07C281-14; C07C335-40; A01N047-34

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT 139966-04-4P 139966-05-5P 139966-06-6P **139966-07-7P**

139966-08-8P 139966-09-9P 139966-10-2P

139966-11-3P 139966-12-4P 139966-13-5P

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RL: AGR (Agricultural use); BAC (Biological activity or effector, except
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 preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as insecticide)

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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as insecticide)

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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as insecticide)

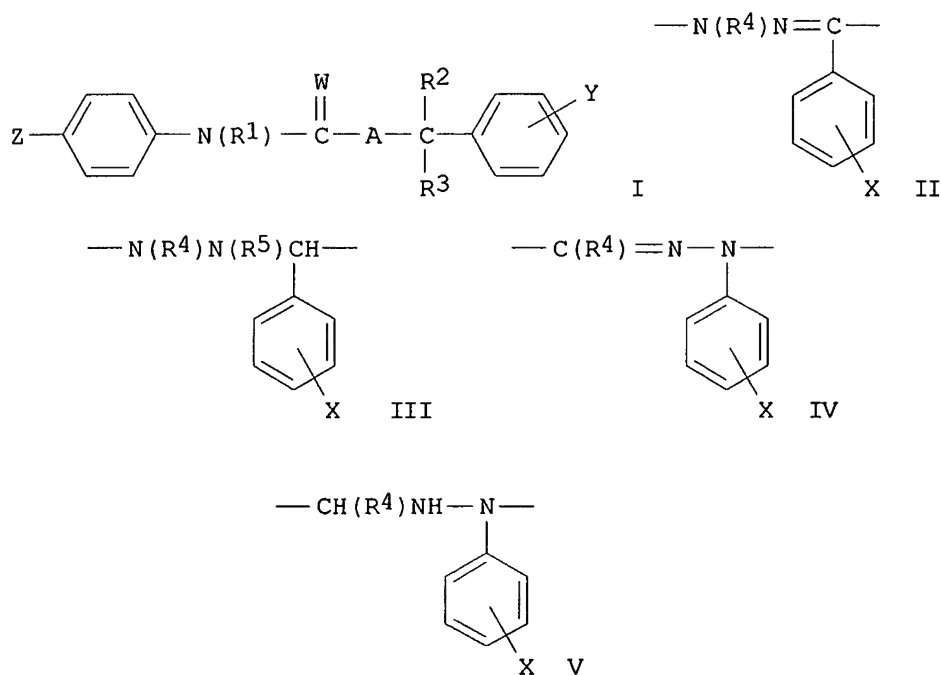
L10 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1973:453062 HCAPLUS
 DOCUMENT NUMBER: 79:53062
 TITLE: Thiosemicarbazones
 INVENTOR(S): Shah, Pravin K. J.; Dewhurst, Francis
 PATENT ASSIGNEE(S): Sterling-Winthrop Group Ltd.
 SOURCE: Brit., 16 pp.
 CODEN: BRXXAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	GB 1314899	A	19730426	GB 1970-36573	19700728
PRIORITY APPLN. INFO.:				GB 1970-36573	19700728
AB	Seventy-seven of the title compds., RR1C:NNHC(:S)NHR2 (RR1C = substituted or unsubstituted fluorenylidene, tetraphenylcyclopentadienyldiene, 1-oxoacenaphthen-2-ylidene; R2 = H, alkyl, aryl) and R2NHC(:S)NHN:CR1:NNHC(:S)NHR2 (R = R1 = Ph, RCCR1 = acenaphthene-1,2-diylidene), useful bactericides, fungicides, and virucides, were prepd. from H2NNHC(:S)NHR2 (I) and the appropriate ketone. Thus, refluxing equivs. of 3-methylfluorenone and I (R2 = H) in 95% EtOH contg. HCl for 0.5-2 hr gave 85% 3-methylfluorenone thiosemicarbazone.				
IC	C07C; C07D; A61K; A01N				
CC	25-21 (Noncondensed Aromatic Compounds)				
IT	134-81-6P	14673-60-0P	14938-71-7P	22814-92-2P	23414-02-0P
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RL:	SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				

L11 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002:314711 HCAPLUS
 DOCUMENT NUMBER: 136:320813
 TITLE: Ectoparasitic insect pest controllers for animals and
 their usage
 INVENTOR(S): Yamaguti, Rikio; Nishimatsu, Tetsuyoshi; Takagi,
 Kazuhiro
 PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 28 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032226	A1	20020425	WO 2001-JP9076	20011016
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002128614	A2	20020509	JP 2000-317887	20001018
AU 2001094269	A5	20020429	AU 2001-94269	20011016
PRIORITY APPLN. INFO.:			JP 2000-317887	A 20001018
			WO 2001-JP9076	W 20011016
OTHER SOURCE(S):			MARPAT 136:320813	
GI				



AB Ectoparasitic insect pest controllers for animals, contain hydrazine derivs. of the general formula (I) as the active ingredient, and methods for application of the same: (I) [wherein A is (II) (III) (IV) (V) (wherein R4 and R5 are each H, C1-6 alkyl, or the like; and X is H, or one to five substituents selected from the group consisting of halogeno and optionally halogenated C1-6 alkyl groups); R1 is H or C1-6 alkyl; R2 and R3 are each H, OH, C1-6 alkyl, phenyl-carbonyl, or the like; Y is H, or one to five substituents selected from halogeno, nitro, and cyano; Z is halogeno, cyano, C1-6 alkyl, or the like; and W is O or S]. The insect pesticides exert remarkable controlling effects on parasitic insects harmful to domestic or pet animals, e.g., fleas, lice, and ticks.

IC ICM A01N047-34

ICS A01N037-18

CC 5-4 (Agrochemical Bioregulators)

IT 302-01-2D, Hydrazine, derivs. 139966-07-7 139966-09-9 139966-19-1

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RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(ectoparasitic insect pest controllers for animals)

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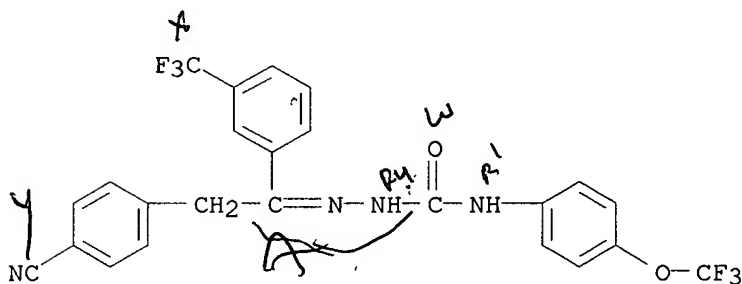
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RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(ectoparasitic insect pest controllers for animals)

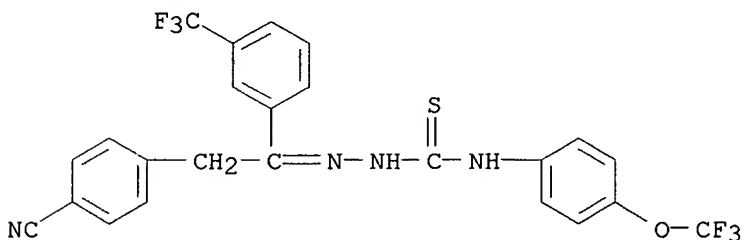
RN 139968-49-3 HCAPLUS

CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]- (9CI)
 (CA INDEX NAME)



RN 139968-50-6 HCAPLUS

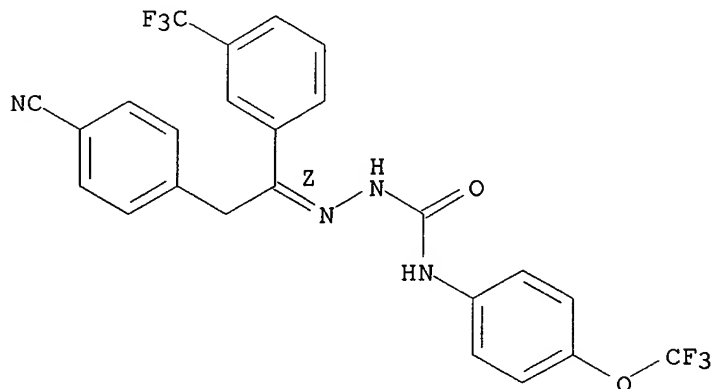
CN Hydrazinecarbothioamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]- (9CI)
 (CA INDEX NAME)



RN 139970-56-2 HCAPLUS

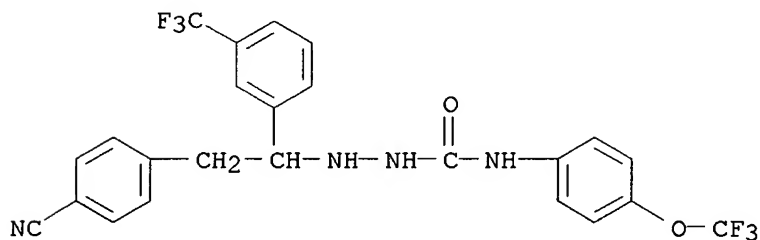
CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]-, (2Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



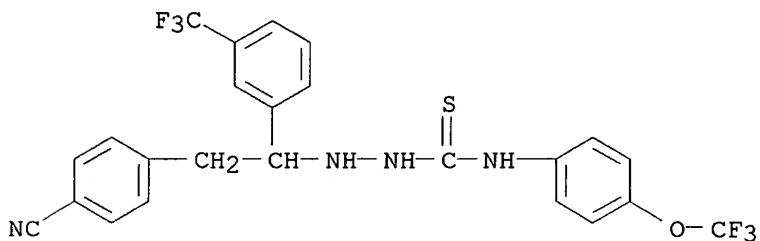
RN 139970-86-8 HCAPLUS

CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 139970-95-9 HCAPLUS

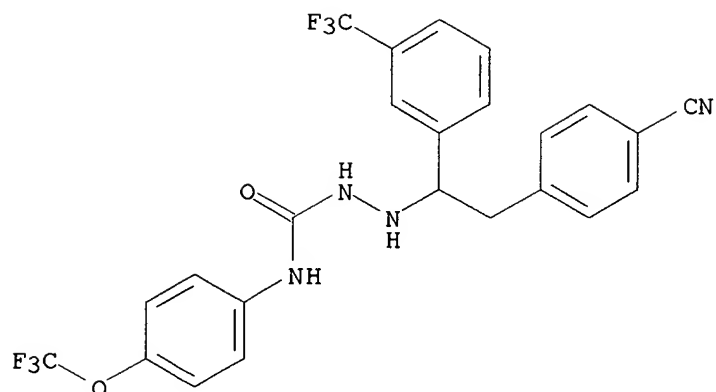
CN Hydrazinecarbothioamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 139971-76-9 HCAPLUS

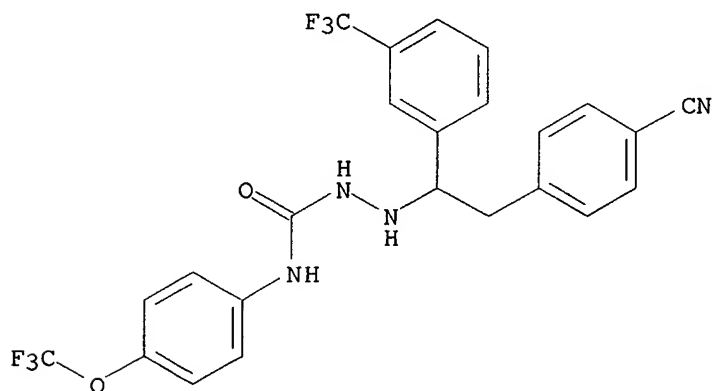
CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]-, (-)-(9CI) (CA INDEX NAME)

Rotation (-).

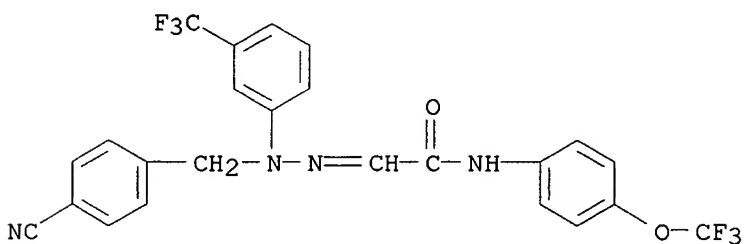


RN 139971-77-0 HCAPLUS
 CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]-, (+)- (9CI)
 (CA INDEX NAME)

Rotation (+).

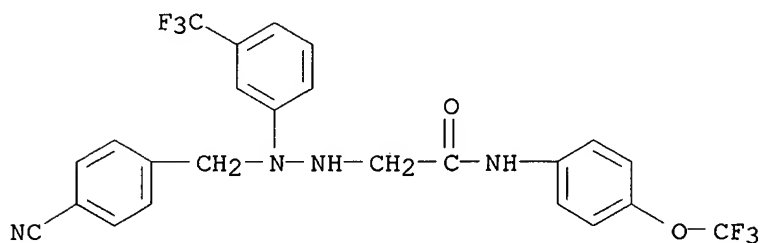


RN 142593-57-5 HCAPLUS
 CN Acetamide, 2-[[4-(4-cyanophenyl)methyl][3-(trifluoromethyl)phenyl]hydrazono]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 142594-57-8 HCAPLUS

CN Acetamide, 2-[2-[(4-cyanophenyl)methyl]-2-[3-(trifluoromethyl)phenyl]hydrazino]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:31263 HCAPLUS

DOCUMENT NUMBER: 134:82196

TITLE: Hydrazine derivative insecticide for ant control

INVENTOR(S): Takagi, Kazuhiro; Wada, Yasuhiro; Yamaguchi, Rikio

PATENT ASSIGNEE(S): American Cyanamid Company, USA

SOURCE: PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001781	A1	20010111	WO 2000-US17895	20000628
W:	AT, AU, BR, CA, CH, CR, DE, DK, ES, FI, GB, HU, IL, IN, KE, MX, NO, NZ, PL, PT, SE, TR, US, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
JP 2001072516	A2	20010321	JP 2000-180378	20000615
EP 1191847	A1	20020403	EP 2000-944989	20000628
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
BR 2000012166	A	20020611	BR 2000-12166	20000628
CN 1292215	A	20010425	CN 2000-119966	20000704
BG 105114	A	20030131	BG 2001-105114	20010103

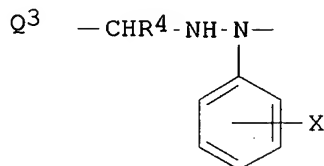
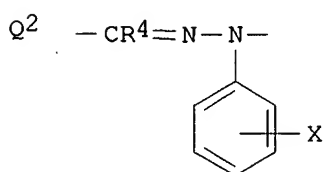
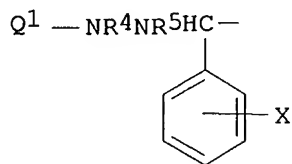
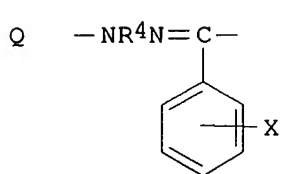
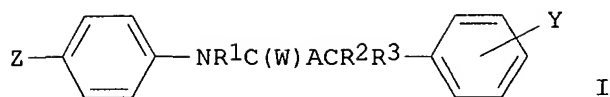
PRIORITY APPLN. INFO.:

JP 1999-190671 A 19990705

WO 2000-US17895 W 20000628

OTHER SOURCE(S): MARPAT 134:82196

GI



AB The invention provides ant control agents for protecting wooden materials such as trees, board fences, sleepers, etc. and structures such as shrines, temples, houses, outhouses, factories, etc. from termites, and for controlling ants doing harm to crops or humans, which contains as active ingredient a hydrazine deriv. I (A = Q, Q¹, Q² or Q³; R¹, R⁴, R⁵ = H, C1-6 alkyl, etc.; X = H, halo or haloalkyl; R², R³ = R¹, OH, phenylcarbonyl, etc.; Y = H, halo, nitro or cyano; Z = halo, cyano, C1-6 alkyl, etc.; W = O or S).

IC ICM A01N047-34

ICS A01N037-44

CC 5-4 (Agrochemical Bioregulators)

IT	139966-07-7	139966-09-9	139966-19-1	139966-21-5	139966-37-3
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318249-89-7				

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(insecticide for ant control)

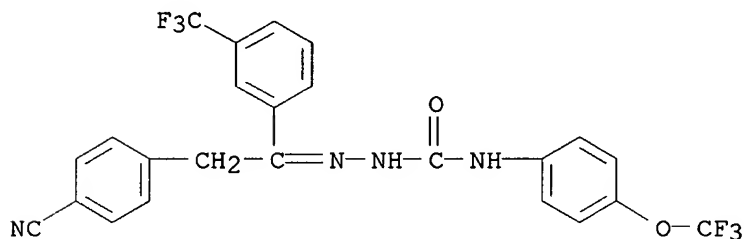
IT **139968-49-3 139968-50-6 139970-56-2**
139970-86-8 139970-95-9 139971-76-9
139971-77-0 142593-57-5 142594-57-8

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(insecticide for ant control)

RN 139968-49-3 HCAPLUS

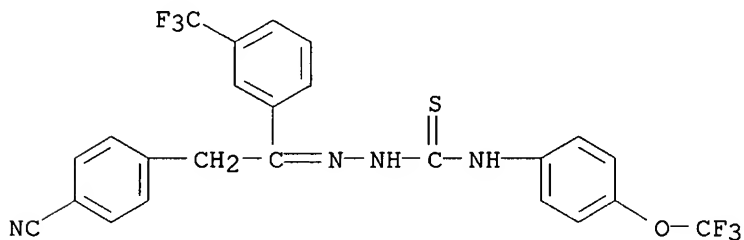
CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]- (9CI)
 (CA INDEX NAME)



Chem I

RN 139968-50-6 HCAPLUS

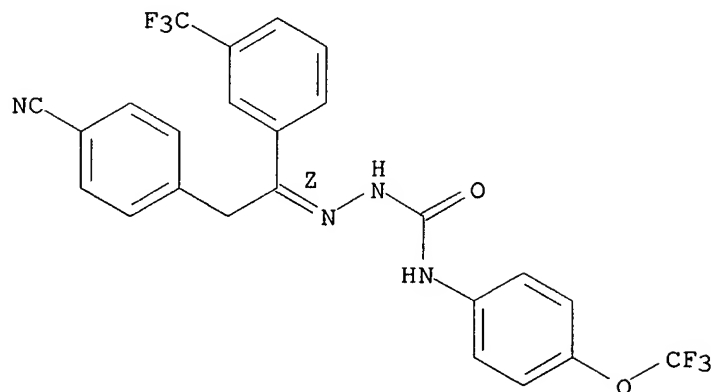
CN Hydrazinecarbothioamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]- (9CI)
 (CA INDEX NAME)



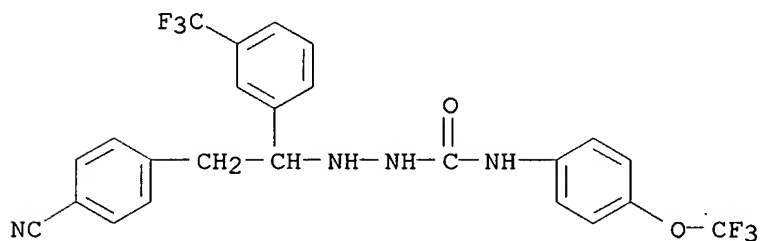
RN 139970-56-2 HCAPLUS

CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]-, (2Z)- (9CI) (CA INDEX NAME)

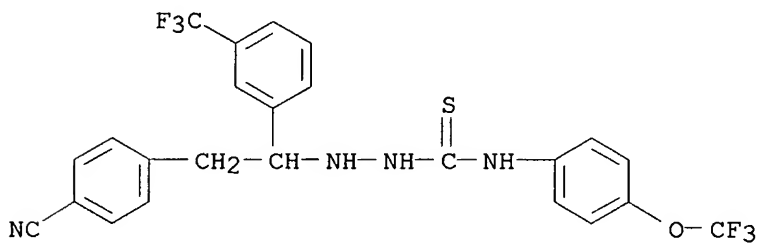
Double bond geometry as shown.



RN 139970-86-8 HCAPLUS
 CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

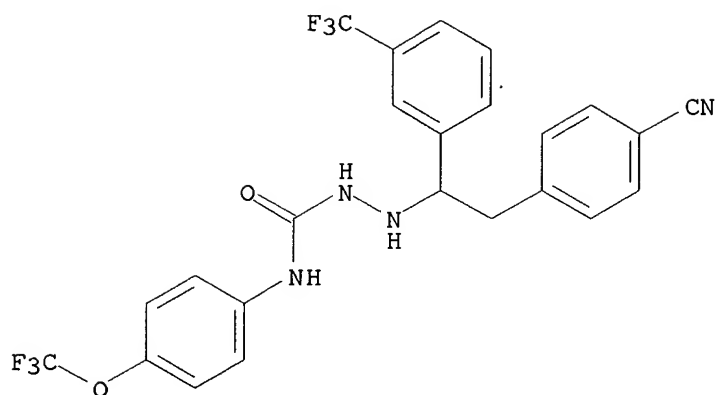


RN 139970-95-9 HCAPLUS
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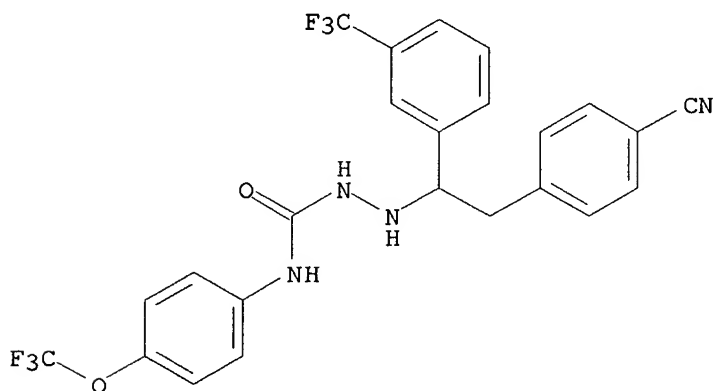
RN 139971-76-9 HCAPLUS
 CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).

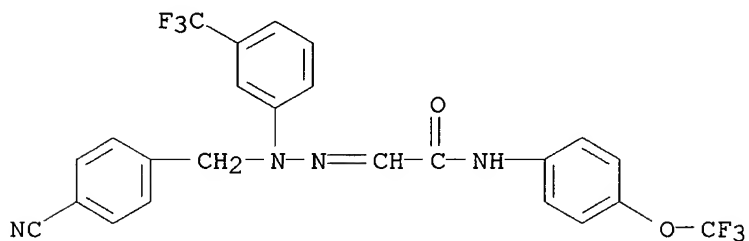


RN 139971-77-0 HCAPLUS
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 (CA INDEX NAME)

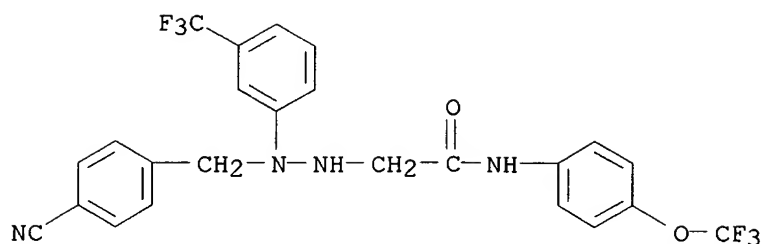
Rotation (+).



RN 142593-57-5 HCAPLUS
 CN Acetamide, 2-[[4-(4-cyanophenyl)methyl][3-(trifluoromethyl)phenyl]hydrazono]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 142594-57-8 HCAPLUS
 CN Acetamide, 2-[2-[[4-(4-cyanophenyl)methyl]-2-[3-(trifluoromethyl)phenyl]hydrazino]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:666544 HCAPLUS

DOCUMENT NUMBER: 133:233923

TITLE: Synergistic insecticidal compositions

INVENTOR(S): Treacy, Michael Frank; Borysewicz, Raymond Frank; Rensner, Paul Erich

PATENT ASSIGNEE(S): American Cyanamid Company, USA

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000054592	A1	20000921	WO 2000-US5951	20000307
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000035164	A5	20001004	AU 2000-35164	20000307
NZ 514001	A	20010928	NZ 2000-514001	20000307
EP 1161148	A1	20011212	EP 2000-913789	20000307
EP 1161148	B1	20030702		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 2000008924	A	20020213	BR 2000-8924	20000307
JP 2002539139	T2	20021119	JP 2000-604686	20000307
US 6342518	B1	20020129	US 2000-521988	20000309
US 2002111376	A1	20020815	US 2002-59668	20020129
PRIORITY APPLN. INFO.:			US 1999-124228P	P 19990312
			US 1999-158202P	P 19991007
			WO 2000-US5951	W 20000307
			US 2000-521988	A3 20000309

OTHER SOURCE(S): MARPAT 133:233923

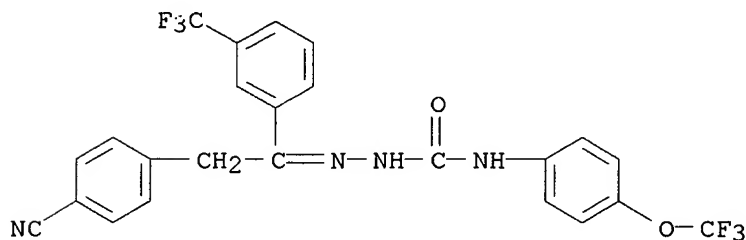
AB The invention provides a synergistic insecticidal compn. comprising a neuronal sodium channel antagonist and an arylpyrrole insecticide.

IC ICM A01N047-34
 ICS A01N047-38; A01N047-40; A01N043-56; A01N037-50; A01N043-36;
 A01N047-34; A01N043-36; A01N047-40; A01N047-38; A01N047-38;
 A01N043-36; A01N047-40; A01N047-40; A01N043-36; A01N047-38;
 A01N043-56; A01N043-36; A01N047-40; A01N047-38
 CC 5-4 (Agrochemical Bioregulators)
 IT **293738-75-7**
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL
 (Biological study); USES (Uses)
 (synergistic insecticidal compn.)
 IT **293738-75-7**
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL
 (Biological study); USES (Uses)
 (synergistic insecticidal compn.)
 RN 293738-75-7 HCAPLUS
 CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-
 (trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]-, mixt.
 with 4-bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl)-1H-
 pyrrole-3-carbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 139968-49-3

CMF C24 H16 F6 N4 O2

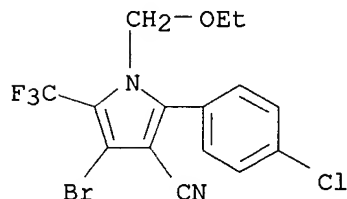


Levy

CM 2

CRN 122453-73-0

CMF C15 H11 Br Cl F3 N2 O



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:666543 HCAPLUS

DOCUMENT NUMBER: 133:248390

TITLE: Synergistic insecticidal compositions containing a neuronal sodium channel antagonist and another insecticide

INVENTOR(S): Treacy, Michael Frank; Borysewicz, Raymond Frank; Schwinghammer, Kurt Allen; Rensner, Paul Erich; Oloumi-Sadeghi, Hassan

PATENT ASSIGNEE(S): American Cyanamid Company, USA

SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

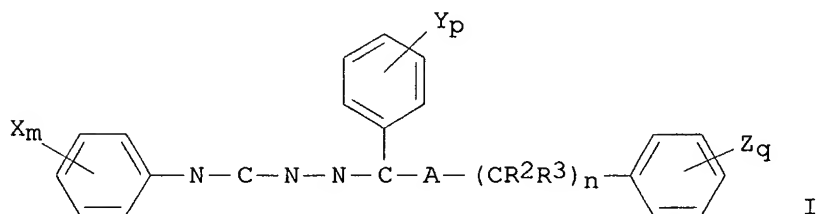
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000054591	A2	20000921	WO 2000-US5879	20000307
WO 2000054591	A3	20010118		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000036175	A5	20001004	AU 2000-36175	20000307
NZ 514000	A	20010928	NZ 2000-514000	20000307
BR 2000008930	A	20011218	BR 2000-8930	20000307
EP 1198170	A2	20020424	EP 2000-914839	20000307
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003517455	T2	20030527	JP 2000-604685	20000307
US 6479543	B1	20021112	US 2000-521987	20000309
US 2002177597	A1	20021128	US 2002-145784	20020516
PRIORITY APPLN. INFO.:				
			US 1999-124306P	P 19990312
			US 1999-158201P	P 19991007
			WO 2000-US5879	W 20000307
			US 2000-521987	A3 20000309

OTHER SOURCE(S): MARPAT 133:248390

GI



AB A synergistic insecticidal compn. comprises a neuronal sodium channel antagonist such as I (X, Y, Z = H, halo, OH, CN, NO₂, alkyl, etc.; W = O or S; m, p, q = 1, 2, 3, 4, or 5; n = 0, 1, or 2; R, R₁, R₂, R₃ = alkyl)

in combination with one or more pyrethroids, pyrethroid-type compds., recombinant nucleopolyhedroviruses expressing an insect toxin, organophosphates, carbamates, formamidines, macrocyclic lactones, amidinohydrazones, GABA antagonists and acetylcholine receptor ligands.

IC ICM A01N047-00

CC 5-4 (Agrochemical Bioregulators)

IT 295312-19-5

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(neuronal sodium channel antagonist in synergistic insecticidal compn.)

IT 295312-19-5

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(neuronal sodium channel antagonist in synergistic insecticidal compn.)

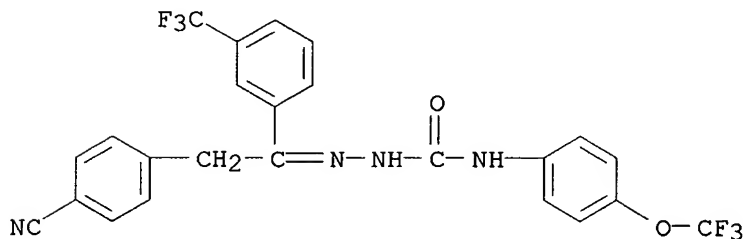
RN 295312-19-5 HCAPLUS

CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]-, mixt. with tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone [3-[4-(trifluoromethyl)phenyl]-1-[2-[4-(trifluoromethyl)phenyl]ethenyl]-2-propenylidene]hydrazone (9CI) (CA INDEX NAME)

CM 1

CRN 139968-49-3

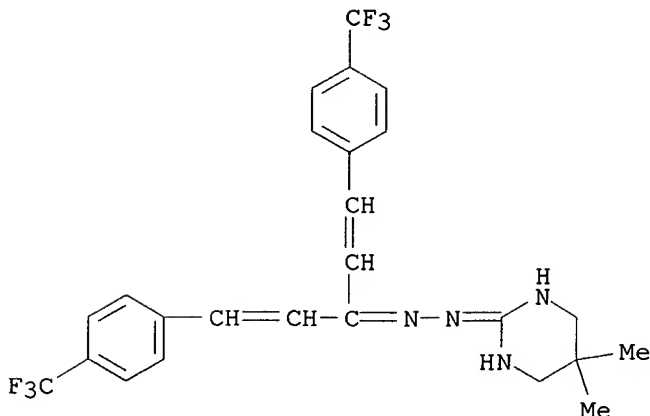
CMF C24 H16 F6 N4 O2



CM 2

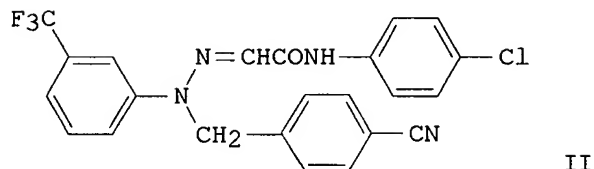
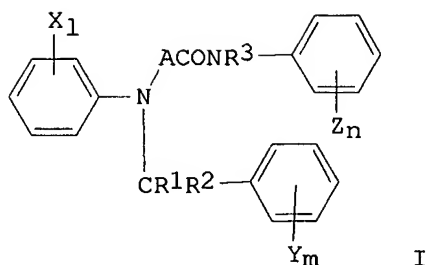
CRN 67485-29-4

CMF C25 H24 F6 N4



L11 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1992:489972 HCAPLUS
 DOCUMENT NUMBER: 117:89972
 TITLE: Preparation of hydrazono- and hydrazinoacetanilides as insecticides
 INVENTOR(S): Hino, Tomokazu; Andoh, Nobuharu; Hamaguchi, Hiroshi; Kanaoka, Atsushi
 PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 42 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 486937	A1	19920527	EP 1991-119381	19911113
EP 486937	B1	19950322		
R: CH, DE, ES, FR, GB, IT, LI				
ZA 9108962	A	19930512	ZA 1991-8962	19911112
US 5304573	A	19940419	US 1991-791227	19911113
ES 2073649	T3	19950816	ES 1991-119381	19911113
AU 9187864	A1	19920611	AU 1991-87864	19911114
AU 655870	B2	19930401		
CN 1061774	A	19920610	CN 1991-110747	19911116
CN 1030910	B	19960207		
JP 05262712	A2	19931012	JP 1991-329518	19911118
JP 2879174	B2	19990405		
JP 05032603	A2	19930209	JP 1991-342428	19911130
JP 2879175	B2	19990405		
US 5358965	A	19941025	US 1993-68204	19930528
CN 1109466	A	19951004	CN 1995-101129	19950103
CN 1034931	B	19970521		
PRIORITY APPLN. INFO.:			JP 1990-312414	19901117
			JP 1990-334471	19901130
			US 1991-791227	19911113
OTHER SOURCE(S):			MARPAT 117:89972	
GI				



AB Title compds. I [R1-R3 = H, C1-5 alkyl; A = N:CR4, NHCHR4; R4 = H, C1-5 alkyl; each X = halo, NO2, C1-5 (halo)alkyl, C1-5 alkoxy, C1-5 alkylthio, C1-5 alkylsulfinyl, -alkylsulfonyl; each Y = halo, cyano, NO2, C1-5 (halo)alkyl, C1-5 (halo)alkoxy, C1-5 alkylthio, C1-5 alkylsulfinyl, -alkylsulfonyl, C2-5 alkynyl, C1-5 alkoxycarbonyl, etc.; each Z = halo, NO2, cyano, C1-5 (halo)alkyl, C1-5 (halo)alkoxy, C1-5 (halo)alkylthio, C1-5 (halo)alkylsulfinyl, C1-5 (halo)alkylsulfonyl, OPh, etc.; l, m, n = 0-5] were prepd. as insecticides useful for the control of lepidoptera and coleoptera, for example. Thus, 3-trifluoromethylphenylhydrazine was benzylated by 4-CNC5H4CH2Br then condensed with HCOC2H3 to give 3-CF3C6H4N(N:CHCO2H)CH2C6H4-CN. This was converted to the acid chloride, then amidated by 4-chloroaniline to give title compd. II. II at 200 ppm gave complete control of *Sitophilus zeamais* on brown rice.

IC ICM C07C243-22

ICS A01N041-10; C07C251-80; C07C317-40; C07C323-41; A01N037-46

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT	142593-11-1P	142593-12-2P	142593-13-3P	142593-14-4P	142593-15-5P
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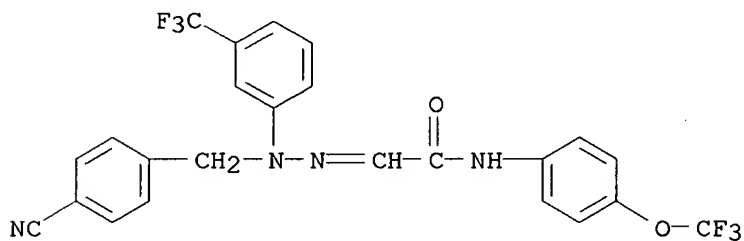
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as insecticide)

IT **142593-57-5P 142594-57-8P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as insecticide)

RN 142593-57-5 HCAPLUS

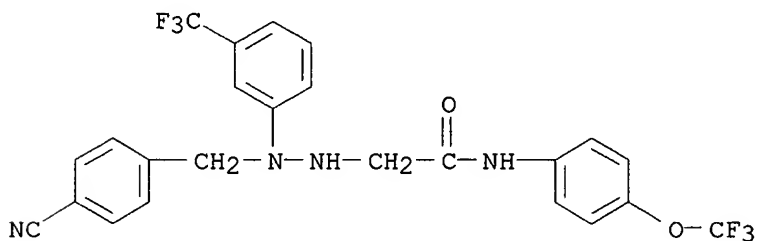
CN Acetamide, 2-[[4-(4-cyanophenyl)methyl][3-(trifluoromethyl)phenyl]hydrazono]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



Levy 1

RN 142594-57-8 HCAPLUS

CN Acetamide, 2-[2-[[4-(4-cyanophenyl)methyl]-2-[3-(trifluoromethyl)phenyl]hydrazino]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



L11 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1992:173783 HCAPLUS

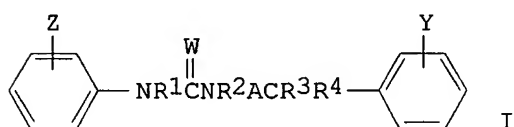
DOCUMENT NUMBER: 116:173783

TITLE: Preparation of phenylhydrazinecarboxamide derivatives as insecticides
 INVENTOR(S): Takagi, Kazuhiro; Ohtani, Takashi; Nishida, Tateki; Hamaguchi, Hiroshi; Nishimatsu, Tetsuyoshi; Kanaoka, Atsushi
 PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 109 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 462456	A1	19911227	EP 1991-109275	19910606
EP 462456	B1	19960508		
R: CH, DE, ES, FR, GB, IT, LI				
ZA 9104232	A	19930224	ZA 1991-4232	19910604
ES 2089056	T3	19961001	ES 1991-109275	19910606
AU 9178332	A1	19911219	AU 1991-78332	19910613
AU 631995	B2	19921210		
CN 1057646	A	19920108	CN 1991-103974	19910615
CN 1028524	B	19950524		
JP 05004958	A2	19930114	JP 1991-171654	19910617
JP 05017428	A2	19930126	JP 1991-178815	19910624
US 5543573	A	19960806	US 1994-227701	19940414
CN 1103065	A	19950531	CN 1994-115320	19940916
CN 1051300	B	20000412		

PRIORITY APPLN. INFO.: JP 1990-158414 A 19900616
 JP 1990-164964 A 19900623
 US 1991-711138 B1 19910606
 US 1993-13197 B1 19930129

OTHER SOURCE(S): MARPAT 116:173783
 GI



AB Title compds. I [R1, R2, R4 = H, alkyl; R3 = H, HO, alkyl, alkoxy, alkylcarbonyloxy, (substituted) PhCO2; R3R4 = O; A = (substituted) N:CPh, (substituted) NR5CHPh wherein R5 = H, alkylcarbonyl, haloalkylcarbonyl, cycloalkylcarbonyl, alkoxy carbonyl, etc.; Y = H, HO, halo, cyano, nitro, alkyl, haloalkyl, etc.; Z = H, halo, cyano, nitro, alkyl, haloalkyl, (substituted) cycloalkyl, etc.; W = O, S] are prepd. 4-(O2N)C6H4CH2CPh:NNH2 (prepn. given) in THF was added to 4-(F3CO)C6H4NCS and Et3N and the mixt. was refluxed for 5 h to give I (R1 = R2 = R3 = R4 = H, A = N:CPh, Y = 4-NO2, Z = 4-F3CO, W = S) (II). II at 500 ppm showed 100% mortality of 2nd instar larvae of common cutworm inoculated on cabbage. Over 600 I were prepd. and many were tested; addnl. utility against some nematodes was mentioned but not demonstrated or claimed.

IC ICM C07C281-06

ICS C07C281-14; C07C335-40; A01N047-34

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

IT	139968-38-0P	139968-39-1P	139968-40-4P	139968-41-5P	139968-42-6P
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as insecticide)

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 139972-00-2P 139972-01-3P 139972-02-4P 139972-24-0P 139972-25-1P
 139972-26-2P 139972-27-3P 139972-28-4P 139972-29-5P 139972-30-8P
 139989-07-4P 139989-08-5P 139989-09-6P 139989-10-9P 139989-11-0P
 139989-12-1P 139989-13-2P 139989-14-3P 139989-15-4P 139989-16-5P
 139989-17-6P 139989-18-7P 139989-19-8P 139989-20-1P 139989-21-2P
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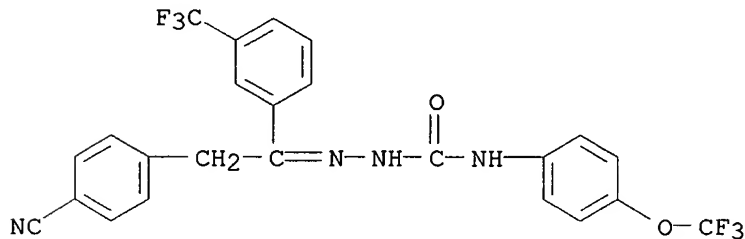
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as insecticide)

IT **139968-49-3P 139968-50-6P 139970-33-5P**
139970-56-2P 139970-86-8P 139970-95-9P
139971-76-9P 139971-77-0P 139971-78-1P
139971-79-2P 139971-80-5P 139971-84-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as insecticide)

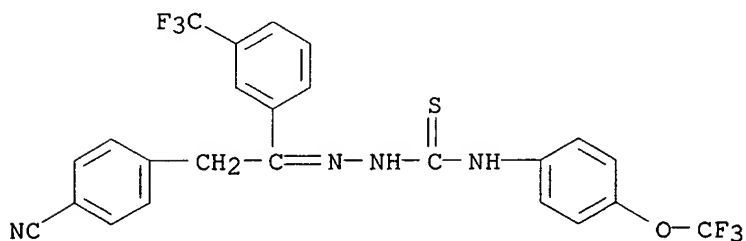
RN 139968-49-3 HCAPLUS

CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]- (9CI)
 (CA INDEX NAME)

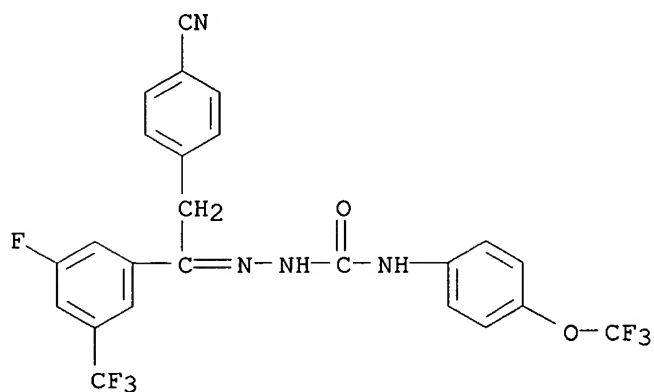


Clair 1

RN 139968-50-6 HCAPLUS
 CN Hydrazinecarbothioamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]- (9CI)
 (CA INDEX NAME)

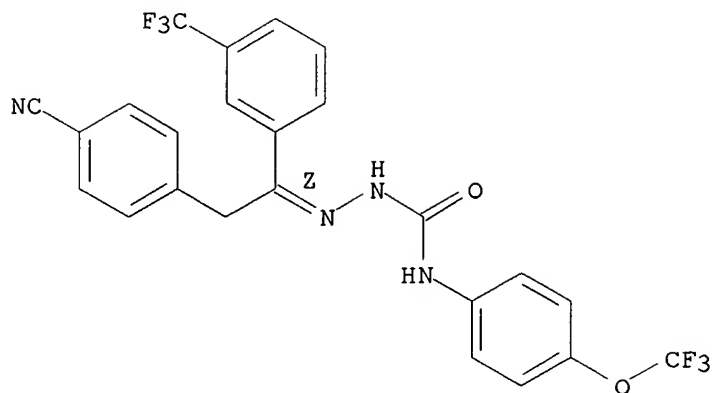


RN 139970-33-5 HCAPLUS
 CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-fluoro-5-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]- (9CI)
 (CA INDEX NAME)



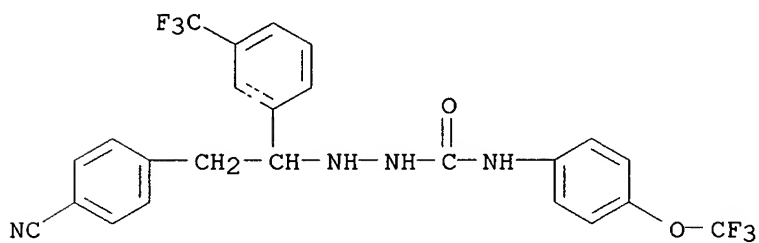
RN 139970-56-2 HCAPLUS
 CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethylidene]-N-[4-(trifluoromethoxy)phenyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



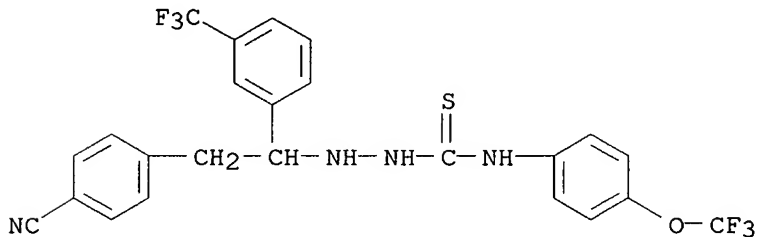
RN 139970-86-8 HCAPLUS

CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 139970-95-9 HCAPLUS

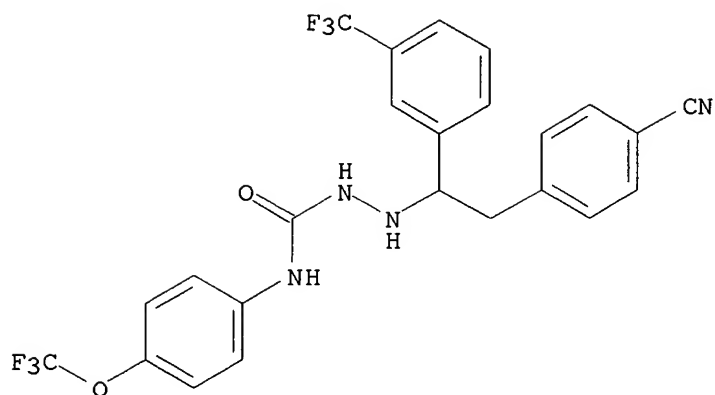
CN Hydrazinecarbothioamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 139971-76-9 HCAPLUS

CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]-, (-)- (9CI) (CA INDEX NAME)

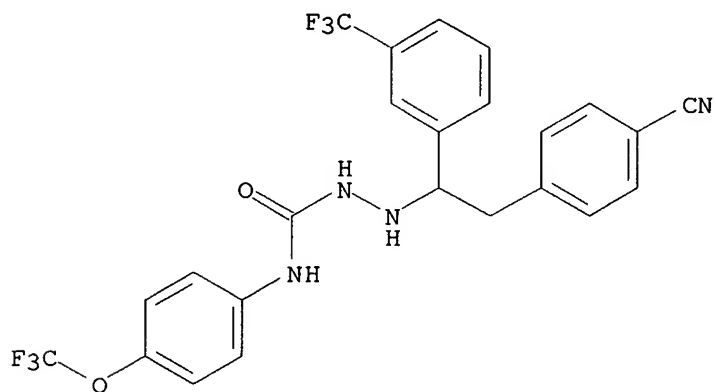
Rotation (-).



RN 139971-77-0 HCAPLUS

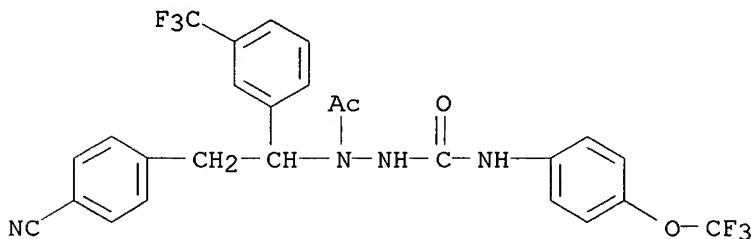
CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]-, (+)- (9CI)
(CA INDEX NAME)

Rotation (+).



RN 139971-78-1 HCAPLUS

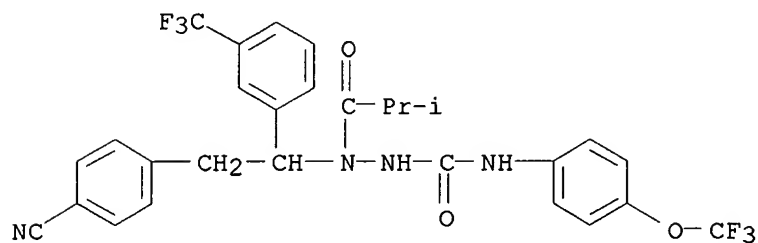
CN Acetic acid, 1-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-2-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]hydrazide (9CI) (CA INDEX NAME)



RN 139971-79-2 HCAPLUS

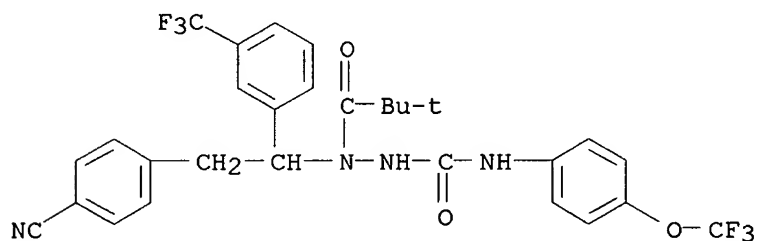
CN Propanoic acid, 2-methyl-, 1-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-2-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]hydrazide (9CI) (CA INDEX NAME)

(trifluoromethyl)phenyl]ethyl]-2-[[4-(trifluoromethoxy)phenyl]amino]carbonyl]hydrazide (9CI) (CA INDEX NAME)



RN 139971-80-5 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-[2-(4-cyanophenyl)-1-[3-(trifluoromethyl)phenyl]ethyl]-1-[3-(trifluoromethoxy)phenyl]hydrazide (9CI) (CA INDEX NAME)



RN 139971-84-9 HCAPLUS

CN Hydrazinecarboxamide, 2-[2-(4-cyanophenyl)-1-[4-(trifluoromethyl)phenyl]ethyl]-N-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

